



ABSTRACT OF THE DISCLOSURE

There is disclosed a receiver which solves such a problem as to strictly realize channel selection filter characteristics in extracting a narrow band signal from a broad band signal by digital signal processing in a conventional direct conversion circuit and which improves an image rejection ratio and which can reduce a load of hardware or processing to realize a channel selection filter for extracting the narrow band signal.

In a digital signal processing section, one set or a plurality of sets of an image rejection section, a frequency conversion section, and a rate conversion section are continuously connected. A narrow band signal of a desired wave is extracted from a broad band signal whose sampling frequency is lowered, and an offset provided at a local oscillator at the time of quadrature detection is removed in the receiver.